

AMENDMENTS TO THE CLAIMS:

Kindly amend claims 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 33, 35, 36, 37 and 38 as shown below.

This listing of claims will replace all prior versions and listings of claims in the Application:

Claims 1-19 (cancelled)

Claim 20 (currently amended): An external module for installation into a mobile communication terminal, said external module comprising:

a test program execution unit, for testing a communication protocol to make a determination whether said communication protocol is being performed properly during transmission between the mobile communication terminal and a base station, including an internal collection mechanism for communicating with said mobile communication terminal to collect information from said mobile communication terminal relating to an internal state of said mobile communication terminal during execution of the communication protocol sequence; during transmission between said mobile communication terminal and said base station, wherein the test program execution unit further comprises a processing unit; and

a storage mechanism for storing therein stored information that has been collected by said collection mechanism, for utilization by said test program execution unit for said determination.

Claim 21 (currently amended): An external module according to claim 20, further comprising:

a protocol execution mechanism for requesting said mobile communication terminal to execute said communication protocol sequence to make a determination whether said

communication protocol is being performed properly during transmission between said mobile communication terminal and a base station.

Claim 22 (currently amended): An external module according to claim 21, wherein said protocol execution mechanism includes a mechanism for requesting the execution of said communication protocol sequence based on information that has been stored in said storage mechanism relating to the performance of said communication protocol during transmission between said mobile communication terminal and said base station.

Claim 23 (currently amended): An external module according to claim 21, wherein said communication protocol sequence is a communication protocol sequence that is performed by radio between a mobile communication terminal and a base station.

Claim 24 (currently amended): An external module according to claim 20, further comprising:

a stored information processing mechanism for processing stored information that has been stored in said storage mechanism.

Claim 25 (currently amended): An external module according to claim 24, wherein said protocol execution mechanism includes a mechanism for requesting the execution of a communication protocol sequence based on information that has been processed by said stored information processing mechanism.

Claim 26 (previously presented): An external module according to claim 20, wherein said external module is any one of a SIM card, a USIM card, and an IC card having higher specifications than a SIM card or USIM card.

Claim 27 (currently amended): A mobile communication terminal into which an external module is installed, said mobile communication terminal comprising:

an internal acquisition mechanism for acquiring information, in response to commands from said external module, from said mobile communication terminal relating to an internal state of said mobile communication terminal during execution of a communication protocol sequence; to make a determination whether said communication protocol is being performed properly during transmission between said mobile communication terminal and a base station;
and

an output mechanism for supplying information that has been acquired by said acquisition mechanism to said external module where the information is stored for use in said determination.

Claim 28 (currently amended): A mobile communication system comprising:

a mobile communication terminal; and

an external module for installation into said mobile communication terminal;

wherein said mobile communication terminal comprises:

an internal acquisition mechanism for acquiring information, in response to commands from said external module, from said mobile communication terminal relating to an internal state of said mobile communication terminal during performance ~~execution~~ of a communication protocol ~~sequence~~ during transmission between said mobile communication terminal and a base station; and

an output mechanism for supplying information that has been acquired by said acquisition mechanism to said external module;

and wherein said external module comprises:

HAYES SOLOWAY P.C.
3450 E. SUNRISE DRIVE
SUITE 140
TUCSON, AZ 85718
TEL. 520.862.7623
FAX. 520.862.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

an internal collection mechanism for collecting information from said mobile communication terminal that has been supplied by said output mechanism of said mobile communication terminal; and

a storage mechanism for storing therein information that has been collected by said collection mechanism.

Claim 29 (currently amended): A method for testing communication protocol in a mobile communication terminal, an external module being installed into said mobile communication terminal, said method comprising the steps of:

requesting said mobile communication terminal, by said external module, to execute a communication protocol ~~sequence~~;

executing, by said mobile communication terminal, said communication protocol ~~sequence~~ in accordance with said request by said external module;

internally acquiring, in response to commands from said external module, from said mobile communication terminal, information relating to an internal state of said mobile communication terminal during execution of [[a]]said communication protocol sequence during transmission between said mobile communication terminal and a base station;

supplying, by said mobile communication terminal, the acquired information to said external module;

collecting, by said external module, information that has been supplied by said mobile communication terminal; and

storing, in said external module, the collected information as stored information.

Claim 30 (currently amended): A method according to claim 29, further comprising wherein said step of requesting to execute said communication protocol sequence

~~includes requesting, by said external module requesting said mobile communication terminal~~
to execute said communication protocol ~~sequence, and determining whether the execution of~~
~~said communication protocol during transmission between said mobile communication unit~~
~~and said base station is proper,~~ based on information that is stored.

Claim 31 (currently amended): A method according to claim 29, wherein said step of
executing said communication protocol ~~sequence~~ includes execution by said mobile
communication terminal of a communication protocol sequence by radio with a base station.

Claim 32 (previously presented): A method according to claim 29, further comprising a
step of processing information that is stored in said external module.

Claim 33 (currently amended): A method according to claim 32, wherein said ~~step of~~
~~executing said communication protocol sequence includes requesting, by said external~~
module, ~~requests~~ execution of a communication protocol ~~sequence, and determines whether~~
~~the execution of said communication protocol during transmission between said mobile~~
~~communication unit and said base station is proper,~~ based on said stored information ~~that has~~
~~been processed.~~

Claim 34 (previously presented): A method according to claim 29, wherein said external
module is any one of a SIM card, a USIM card, and an IC card having higher specifications
than a SIM card or a USIM card.

Claim 35 (currently amended): An external module for installation into a mobile
communication terminal, said external module comprising:

a test program execution unit for performing test programs relating to testing the
proper execution of a communication protocol between said mobile communication terminal

and a base station during transmission between said mobile communication terminal and said base station;

an internal collection mechanism for communicating with said mobile communication terminal to collect information from said mobile communication terminal relating to an internal state of said mobile communication terminal during execution of said communication protocol during transmission between said mobile communication terminal and said base station~~test programs on said test program execution unit~~; and

a storage mechanism for storing therein stored information that has been collected by said collection mechanism.

Claim 36 (currently amended): A mobile communication terminal into which is installed an external module for executing test programs relating to testing the proper execution of a communication protocol between said mobile communication terminal and a base station during transmission between said mobile communication terminal and said base station is installed, said mobile communication terminal comprising:

an internal acquisition mechanism for acquiring, in response to commands from said external module, information from said mobile communication terminal relating to an internal state of said mobile communication terminal during said execution of said communication protocol during transmission between said mobile communication terminal and said base station~~test programs~~; and

an output mechanism for supplying information that has been acquired by said acquisition mechanism to said external module where the information is stored and utilized during the execution of said test programs.

Claim 37 (currently amended): A mobile communication system comprising:

a mobile communication terminal; and

an external module for installation into said mobile communication terminal;

wherein said mobile communication terminal comprises:

an internal acquisition mechanism for acquiring information, in response to commands from said external module, from said mobile communication terminal relating to an internal state of said mobile communication terminal during execution of a communication protocol during transmission between said mobile communication terminal and a base station; and

an output mechanism for supplying information that has been acquired by said acquisition mechanism to said external module;

and wherein said external module comprises:

a test program execution unit for performing test programs;

a collection mechanism for collecting information from said mobile communication terminal for test programs, relating to testing the proper execution of a communication protocol between said mobile communication terminal and a base station during transmission between said mobile communication terminal and said base station, executing on said test program execution unit that has been supplied by said output mechanism of said mobile communication terminal; and

a storage mechanism for storing therein stored information that has been collected by said collection mechanism for utilization during the execution of said test programs.

Claim 38 (currently amended): A method for testing the performance of a communication protocol by a mobile communication terminal by executing test programs in said mobile communication terminal, an external module being installed into said mobile communication terminal, said method comprising steps of:

requesting said mobile communication terminal, by said external module, to execute a communication protocol sequence;

executing, by said mobile communication terminal, said communication protocol sequence during transmission between said mobile communication terminal and a base station in accordance with said request by said external module;

internally acquiring, in response to commands from said external module, from said mobile communication terminal, information relating to an internal state of said mobile communication terminal during performance of said communication protocol during transmission between said mobile communication terminal and said base station;

supplying, by said mobile communication terminal, the acquired information to said external module;

collecting, by said external module, information that has been supplied by said mobile communication terminal as part of said test program; and

storing, in said external module, the collected information as stored information from during the performance of said communication protocol, for use with said test program to determine if the performance of the communication protocol is proper.